

Nicotiflorin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Nicotiflorin

Catalog No.: CFN99830

Cas No.: 17650-84-9

Purity: 98%

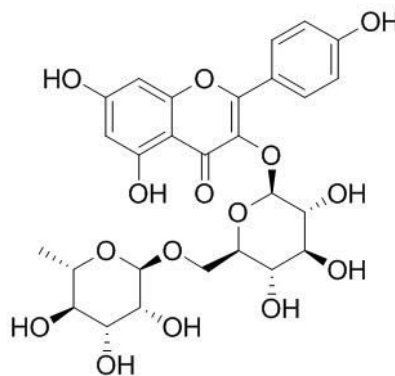
M.F: C₂₇H₃₀O₁₅

M.W: 594.5

Physical Description: Yellow powder

Synonyms:

3,4',5,7-Tetrahydroxyflavone 3-rhamnoglucoside Nicotiflorin; Kaempferol-3-o-rutinoside



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herb of *Carthamus tinctorius* L.

[Biological Activity or Inhibitors]

Nicotiflorin is a flavonoid glycoside extracted from a traditional Chinese medicine Flos Carthami, it has a protective effect against cerebral ischemic damage.^[1]

Nicotiflorin has protective effects on reducing memory dysfunction, energy metabolism failure and oxidative stress in multi-infarct dementia model rats.^[2]

Nicotiflorin has neuro - protection in permanent focal cerebral ischemia and in neuronal cultures. ^[3]

[Solvent]

DMSO, Pyridine, Methanol.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.4% H₃PO₄ H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 20 °C;

The wave length of determination: 360 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Li R, Guo M, Zhang G, *et al. J. Ethnopharmacol.*, 2006, 107(1):143-50.

[2] Huang J, Fu S Y, Cao Y, *et al. Pharmacol. Biochem. Behavior*, 2007, 86(4):741-8.

[3] Li R, Guo M, Zhang G, *et al. Biol .Pharm. Bull.*, 2006, 29(9):1868-72.

[4] Sun J, Xiao-Juan H E, Liu J Q. *China Pharmacy*, 2015, 9.

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